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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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EXAMINER

NGUYEN, MIKE

ART UNIT PAPER NUMBER

2182

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/964,681

Applicant(s)

RICHARDSON, RAY M.

Examiner

Mike Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 January 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 9-16, 19-26 and 29-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 9-16, 19-26 and 29-36 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Notices & Remarks

1. Applicant's Amendment 01/24/2005 in response to Examiner's Office Action has been reviewed. The following rejections now apply.

2. Claims 1-6, 9-16, 19-26 and 29-36 are pending for the examination.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-4, 9-14, 19-24, 29-31, 33 and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Schwab (U.S. Pat. No. 4,543,627).

As to claim 21, Schwab teaches a system (fig. 1) comprising:

a processor (CPU 320); and

a storage coupled to said processor storing instructions (memory 310) that enable the processor to:

initiate a direct memory access (DMA 200 and DMA 500 col. 9 lines 1-21); and

successively transfer data from linked buffers in a first processor system to linked buffers in a second processor system (fig. 2 and PROCESSOR 300 , SEND B and PROCESSOR 500, RECEIVE B and col. 5 line 1 to col. 6 line 8).

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As to claims 2, 12 and 22, Schwab teaches said storage stores instructions that enable the processor to successively transfer data from linked buffers arranged in linked list on the first processor system to buffers arranged in the linked list on a second processor system (col. 5 line 1 to col. 6 line 8).

As to claims 3, 13 and 23, Schwab teaches said storage stores instructions that enable the processor to provide descriptors that indicate the status of each of said buffers (fig. 3 STATUS 356 and col. 6 lines 62-63 and col. 8 lines 20-24).

As to claims 4, 14 and 24, Schwab teaches said storage stores instructions that enable the processor to provide flags that indicate whether a buffer is empty or full (col. 8 lines 60-68).

As to claims 9, 19 and 29, Schwab teaches said storage stores instructions that enable the processor to generate an interrupt when a buffer is empty and data is to be transferred from the buffer, intercept the interrupt, and automatically fill the buffer (col. 9 lines 1-37).

As to claims 10, 20 and 30, Schwab teaches said storage stores instructions that enable the processor to determine whether a buffer that is to receive data is full and if the buffer is full, automatically generate an interrupt, intercept the interrupt, and automatically empty the buffer (col. 9 lines 1-37).

As to claims 31, 33 and 35, Schwab teaches the first processor system comprises a first-in-first-out buffer coupled to the linked buffers (col. 6 lines 9-13).

As to claims 1 and 11, Schwab teaches a method and article comprising:
initiate a direct memory access (DMA 200 and DMA 500 col. 9 lines 1-21); and
successively transfer data from linked buffers in a first processor system to linked buffers in a second processor system (fig. 2 and PROCESSOR 300, SEND B and PROCESSOR 500, RECEIVE B and col. 5 line 1 to col. 6 line 8).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 5-6, 15-16, 25-26, 32, 34 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schwab in view of Gustafson et al. (U.S. Pat. No 5,524,134).

As to claims 5, 15 and 25, Schwab fails to explicitly teach a cellular phone. Gustafson; however, teaches transferring data between buffers in the cellular telephone (fig 1-2 col. 5 line 10-27). It would have been obvious to a person of ordinary skill in the art to have buffers in the cellular telephone in order to prevent lost data.

As to claims 6, 16 and 26, Schwab teaches said processor is a baseband processor (col. 3 lines 58-60), said system further including a multimedia processor (col. 4 lines 6-9).

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As to claims 32, 34 and 36, Schwab fails to explicitly teach a wireless communication system. Gustafson; however, teach the wireless communication system comprising the first processor system and the second processor system, the wireless communication system further comprising an internal bus to couple the first processor system and the second processor system (figs 1-2 Vocoder/Comsec subsystem processor 11, Modem/Signaling subsystem processor 21, host port 31 and cellular phone 45). It would have been obvious to a person of ordinary skill in the art to have the wireless communication system in order to provide intercommunicating between two processor systems in the wireless communication system.

Response to Arguments

7. Applicant's arguments with respect to claim 1-6, 9-16, 19-26 and 29-36 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Nguyen whose telephone number is 571 272-4153. The examiner can normally be reached on 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 571 272-4146. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mike Nguyen
Patent Examiner
Group Art Unit 2182

04/28/2005


JEFFREY GAFFIN
SUPERVISORY PATENT EXAMINER
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4/27/05